

New Instrument Control Environment

From ICE to NICE

Staffing

- Core
 - Chirag
 - Natasha
 - Frank
 - ~~Brett~~
 - ?
- On loan
 - Paul Kienzel
 - ~~Jeff Krzywon~~
 - ~~Siddharth K~~
- Steering group
 - Brian Maranville
 - Matt Wasborough
 - William Ratcliff
 - Chris Stock
 - ~~Andrew Jackson~~
- Upper management
 - Richard Ibberson
 - Dan Neumann

Outline

- NICE Project Overview/History
- Project Management
- Review “Alpha” Project
- Alpha Project Status
- Future Development
- Quick Glance

NICE Project Overview and History

- Code Freeze Started – 6/10/2010
- NICE development started – 11/9/2010
- Alpha Project Started – 3/1/2011
- Goals
 - Improve Maintainability
 - Improve Extensibility
 - Replace Existing Data Acquisition Software

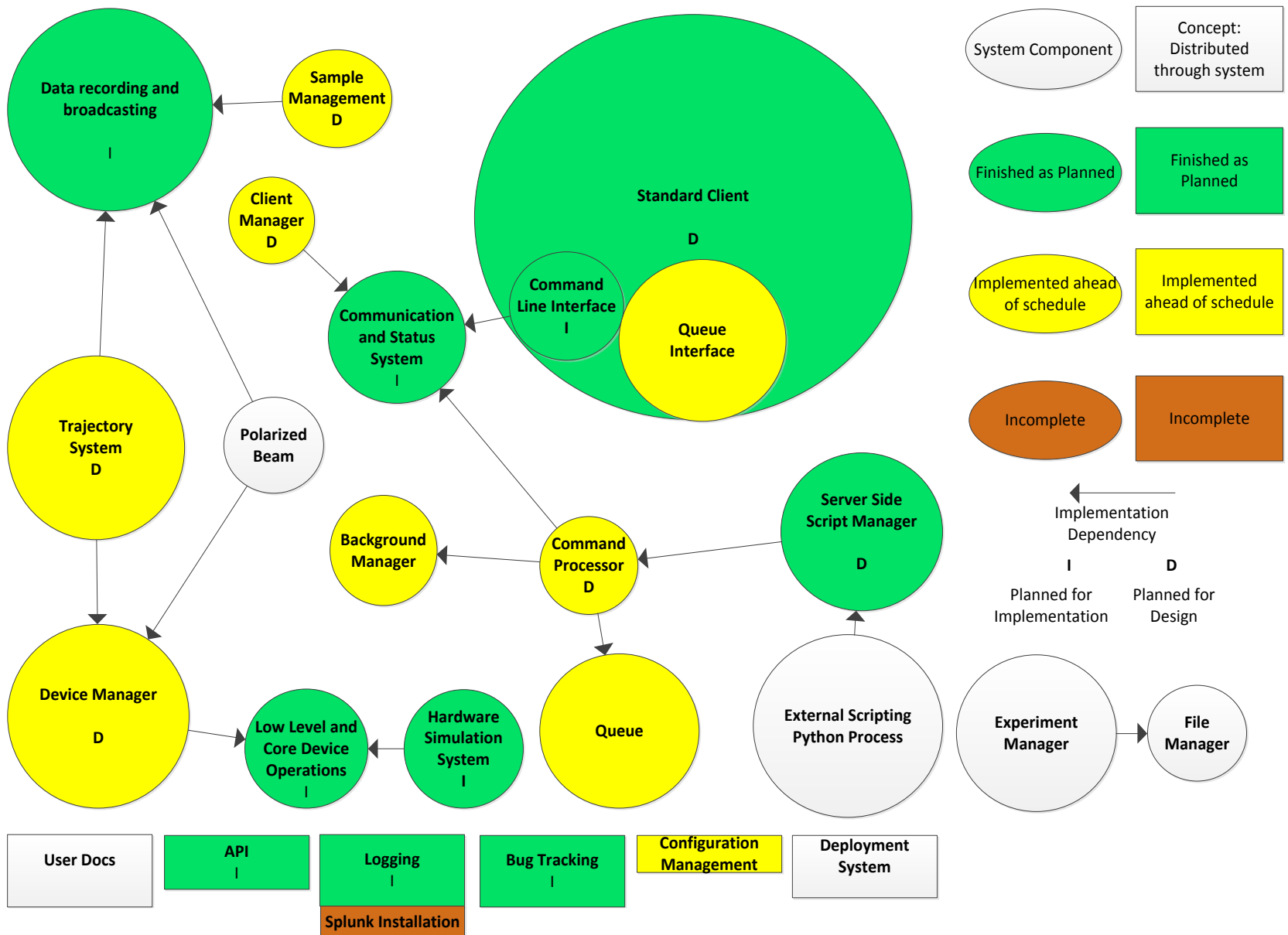
Project Management

- Tier 1 – Stephen Pheiffer
 - Makes decisions day to day
 - Oversees design
 - Recommends courses of action to steering group
 - Poses questions to steering group
- Tier 2 – Steering Group
 - Meets ~bi-weekly
 - Monitors project progress
 - Dictates project requirements
 - Gives feedback on work
 - Sets priorities
- Tier 3 – Upper Management
 - Sets high level facility goals
 - Coarsely Monitors project
 - Ensures Steering Group is working

NICE Alpha Project Review

- What is it?
 - Early
 - Minimalistic
 - Non-production
- Goals
 - Lower risk
 - Get feedback earlier
 - Still be responsible
- Changes Risk Profile

Alpha Deployed after 14 Months (original timeline 10-15 months)



Usability of Alpha

(ready to run an experiment)

- Control of motors and counters (command line)
- Setup and execution of scans
- Command queue management and visualization
- Saving of data to existing data formats and HDF
- Open published API for specialized clients

Future Plans

- Core features
 - Finish temperature/magnet control
 - Experiment management
 - Math/sample calculations (Q, HKL, Energy, ...)
 - Many addition minor features
- GUI
 - Status panel
 - Alert/Notification System
 - Experiment setup tools
 - Sample Environment Management
- Internal work
- Bug Fixes
- User Manual (book at the instrument)

Deployments

- Alpha (gathering feedback)
 - 10m SANS (deployed)
 - Simple Triple Axis (Late July 2012)
 - Spin Echo (Late August 2012 - simulated feasibility study)
 - MAGIk (Late September 2012)
- Beta (useful for specialized projects)
 - 10m Sans (December 2012)
 - MAGIk (December 2012)
 - Simple Triple Axis (December 2012)
 - Spin Echo (November 2013?)
- Release (for everyday use)
 - Spin Echo – (November 2013?)

A Quick Glance

- Eclipse Environment
- VMs
- Continuous Integration
- Source Control
- Demo

END